invitrogen^{*}

Complete REact[®] Buffer Set

Cat. No.: 15461-023

Description	with Invitrog	en restric		es. Detailed instruction	of Invitrogen buffers for use s are provided on each	
Contents and Storage	The Complete REact [®] Buffer Set contains the buffers for restriction digestions listed below. REact buffers are also available from Invitrogen separately. Store all buffers at -20 C.					
	Buffer		Amount	Catalog no).	
	REact [®] 1		1 ml	16301-012		
	REact [®] 2		1 ml	16302-010		
	REact [®] 3		1 ml	16303-018		
	REact [®] 4		1 ml	16304-016		
	REact [®] 6		1 ml	16306-011		
	REact [®] 7		1 ml	16307-019		
	REact [®] 8		1 ml	16308-017		
	REact [®] 10		1 ml	16310-013		
	10 mM DTT		250 µl			
Buffer Compositions	(at 1X Concer REact [®] 1:	ntration): 50 mM 10 mM	Tris-HCl (pH 8.0 MgCl ₂) REact [®] 7:	50 mM Tris-HCl (pH 8.0) 10 mM MgCl ₂ 50 mM KCl 50 mM NaCl	
	REact [®] 2:	50 mM Tris-HCl (pH 8.0) 10 mM MgCl2 50 mM NaCl) REact [®] 8:	20 mM Tris-HCl (pH 7.4) 10 mM MgCl ₂	
	REact [®] 3:	50 mM Tris-HCl (pH 8.0) 10 mM MgCl ₂ 100 mM NaCl) REact [®] 10:	100 mM Tris-HCl (pH 7.6) 10 mM MgCl ₂ 150 mM NaCl	
	REact [®] 4:		l Tris-HCl (pH 7.4) l MgCl ₂ l KCl) DTT:	10 mM Dithiothreitol	
	REact [®] 6:)		

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Complete REact[®] Buffer Set, continued

Separate DTT	REact [®] buffers do NOT contain the labile component dithiothreitol (DTT). DTT is required in the reaction mixture of <i>EcoR</i> II and <i>Nde</i> II and must be added to a final concentration of 1 mM as stated on the enzyme product profile.					
No BSA	REact [®] buffers do NOT contain bovine serum albumin (BSA). BSA is not necessary in the reaction buffers for Invitrogen restriction endonucleases. Each REact [®] buffer is supplied as the <u>10X</u> concentrate and should be diluted, 1:10 (1 part REact [®] buffer + 9 parts other components = 10 parts final reaction volume).					
Quality Control	Endonuclease Assay: Cleavage by an appropriate restriction endonuclease only at recognition site at 100-fold excess digest of substrate DNA.					
	Exonuclease Assay: Using 1 pmol radiolabeled termini in a 50-1 reaction and up to 20 units of an appropriate restriction endonuclease for one hour the following results were observed: 1 unit of enzyme removed 0.3% label from 5 ends. 1 unit of enzyme removed 0.3% label from 3 ends.					
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